

FIG. 1

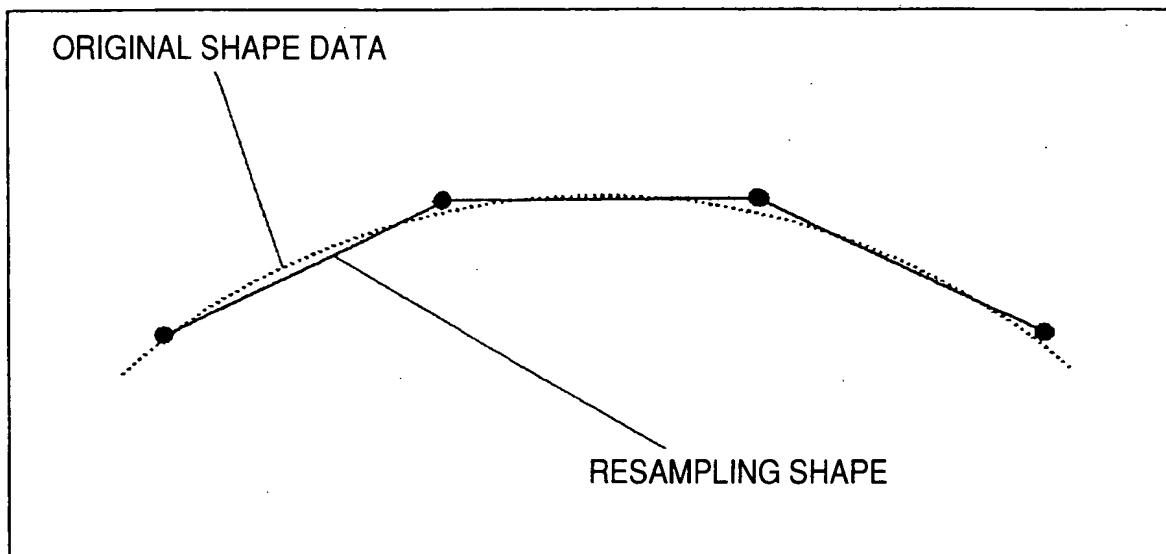


FIG. 2(a)

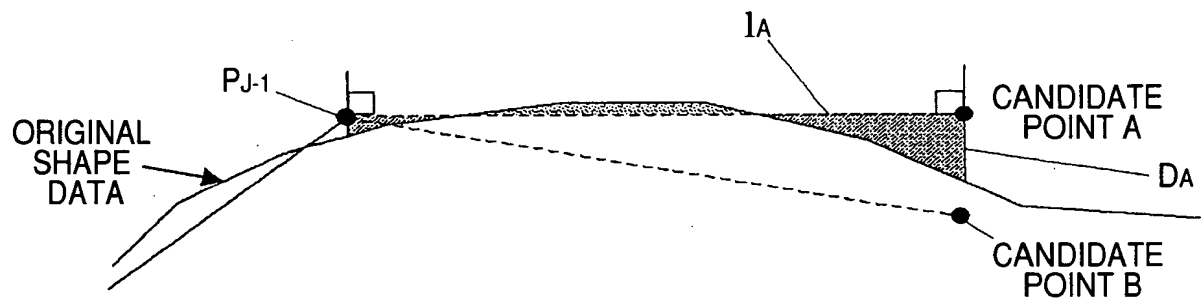


FIG. 2(b)

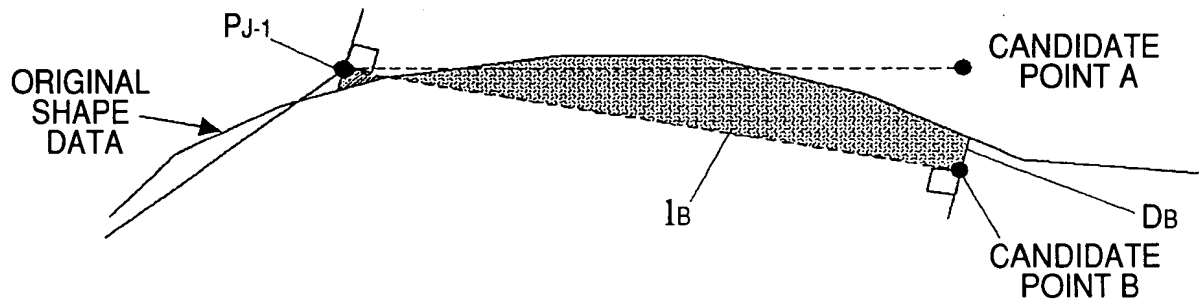


FIG. 3

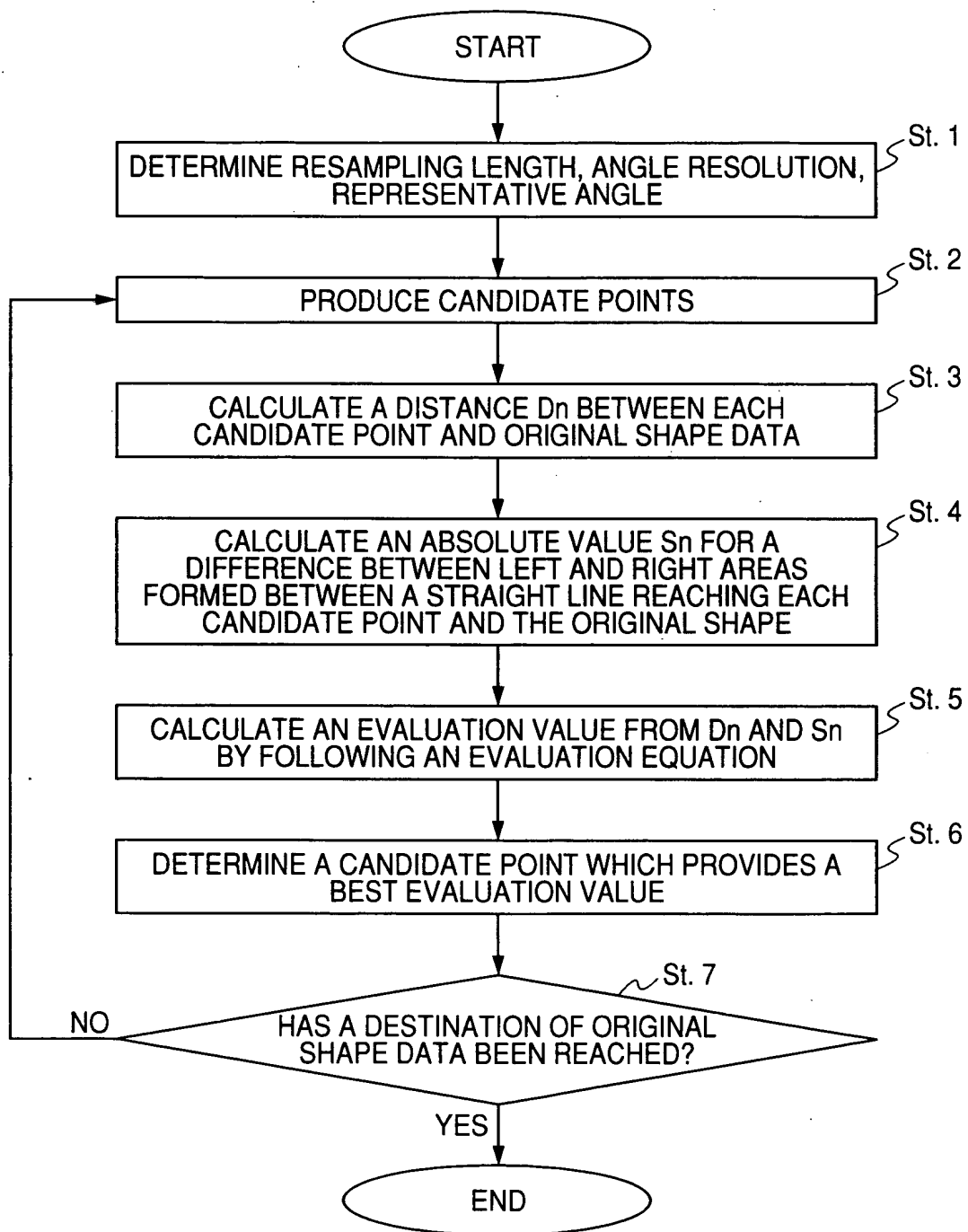


FIG. 4

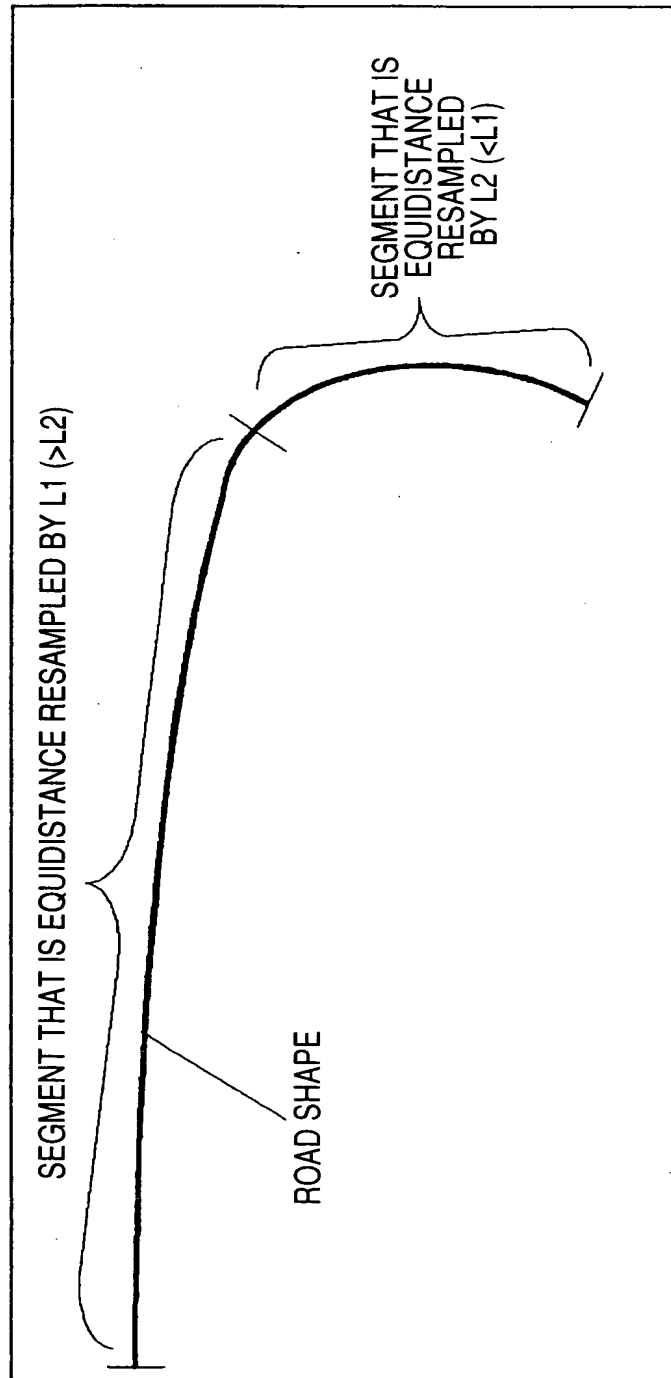


FIG. 5(a)

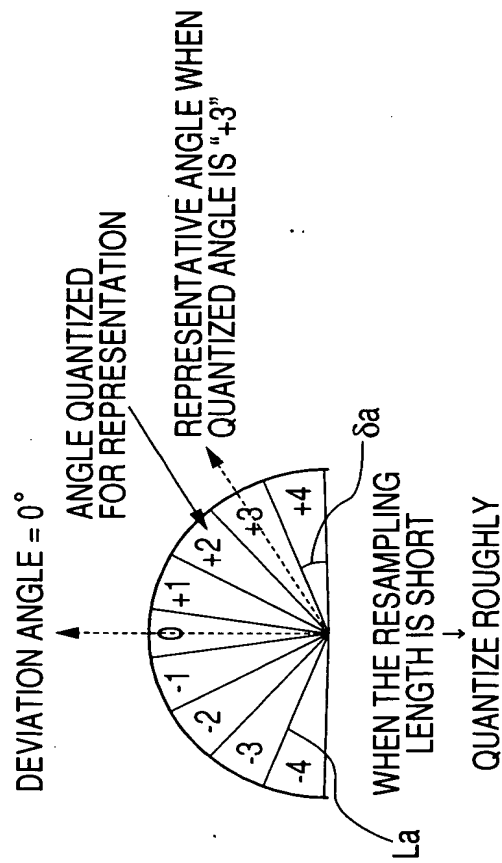


FIG. 5(b)

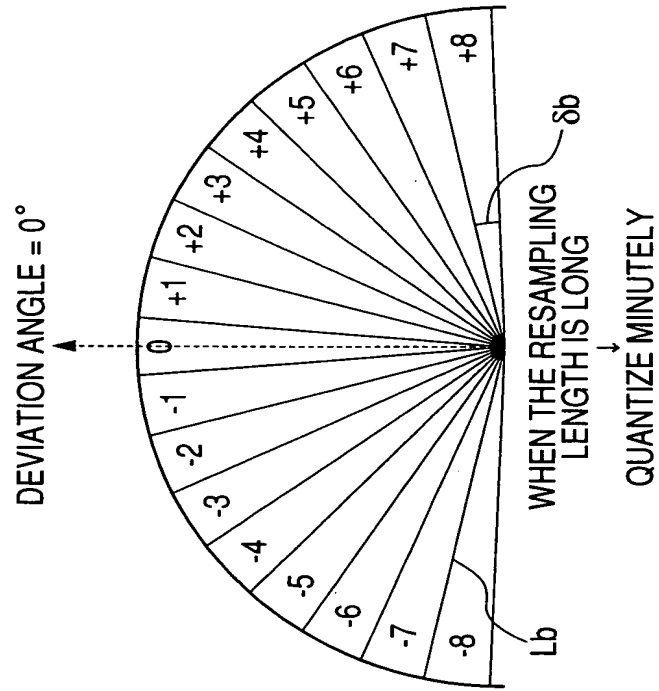


FIG. 6

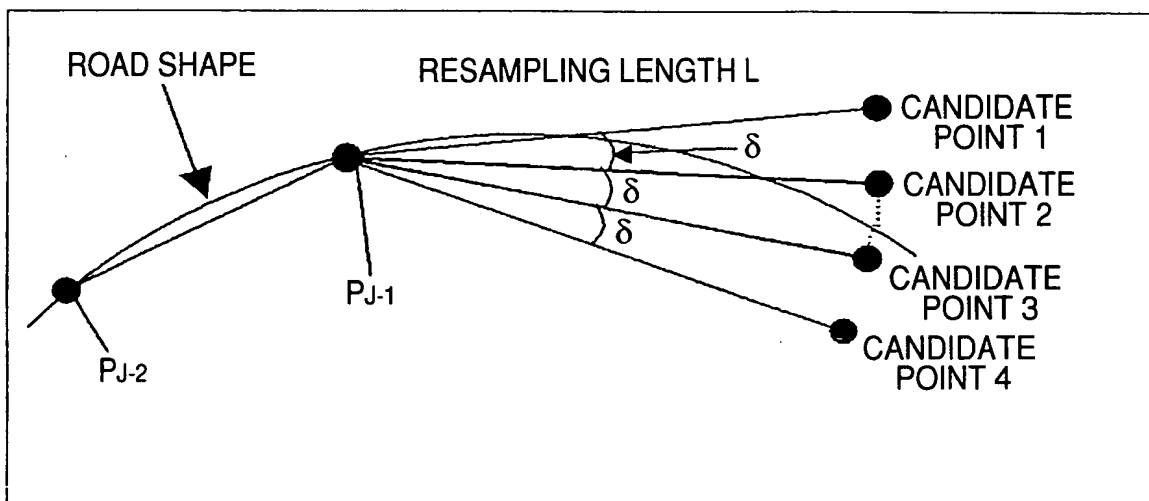


FIG. 7(a)

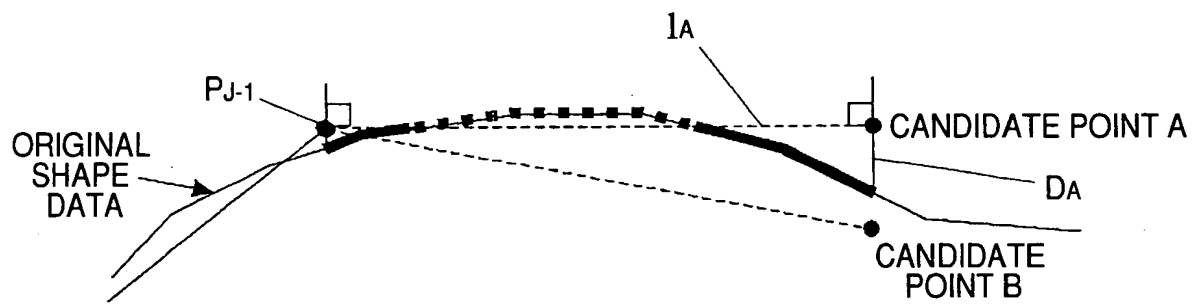


FIG. 7(b)

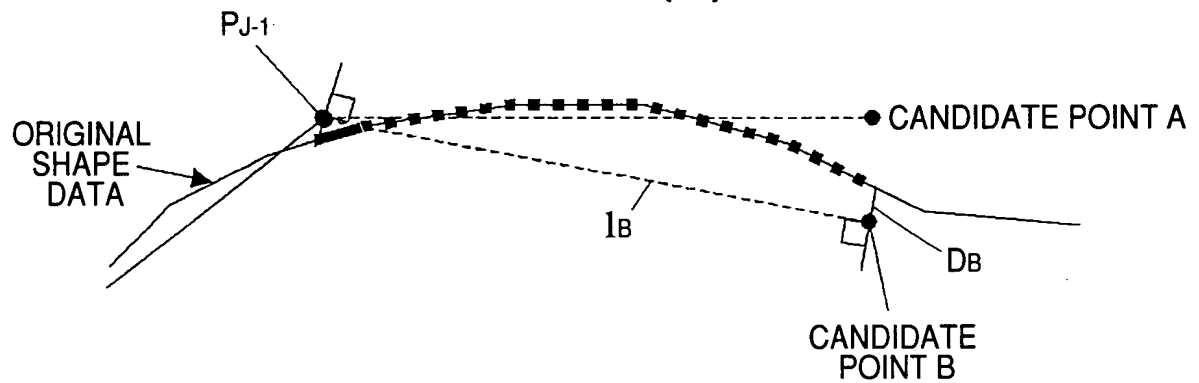


FIG. 8

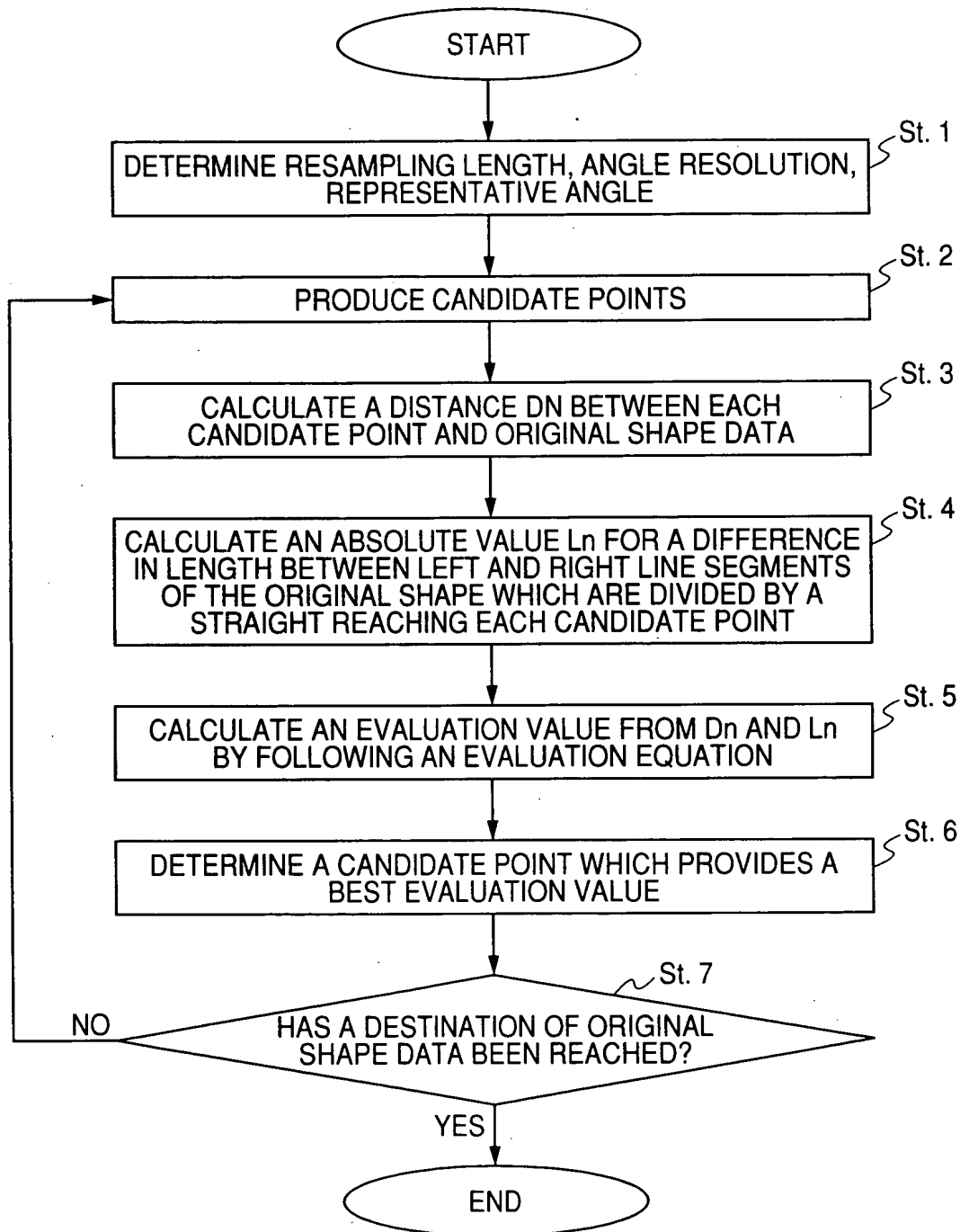


FIG. 9(a)

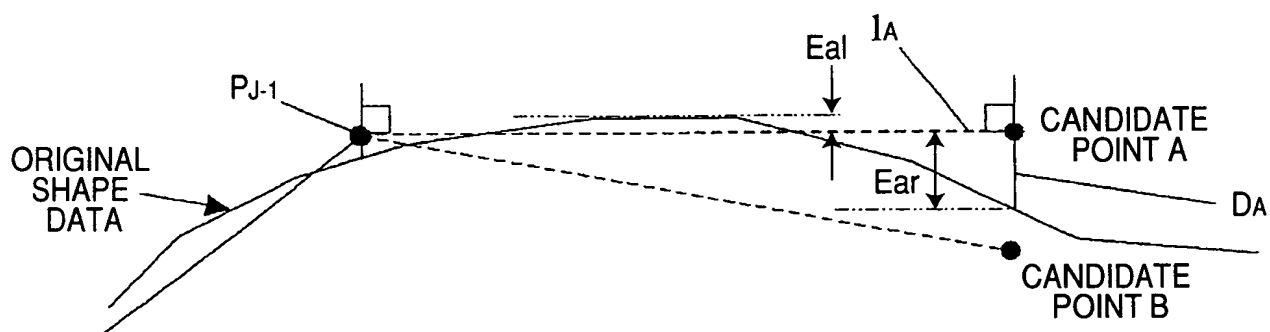
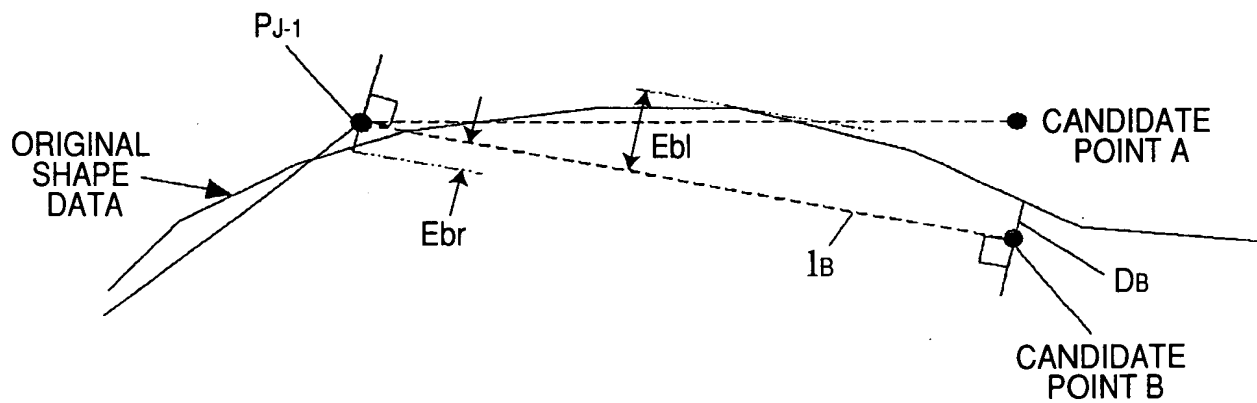


FIG. 9(b)



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FIG. 10

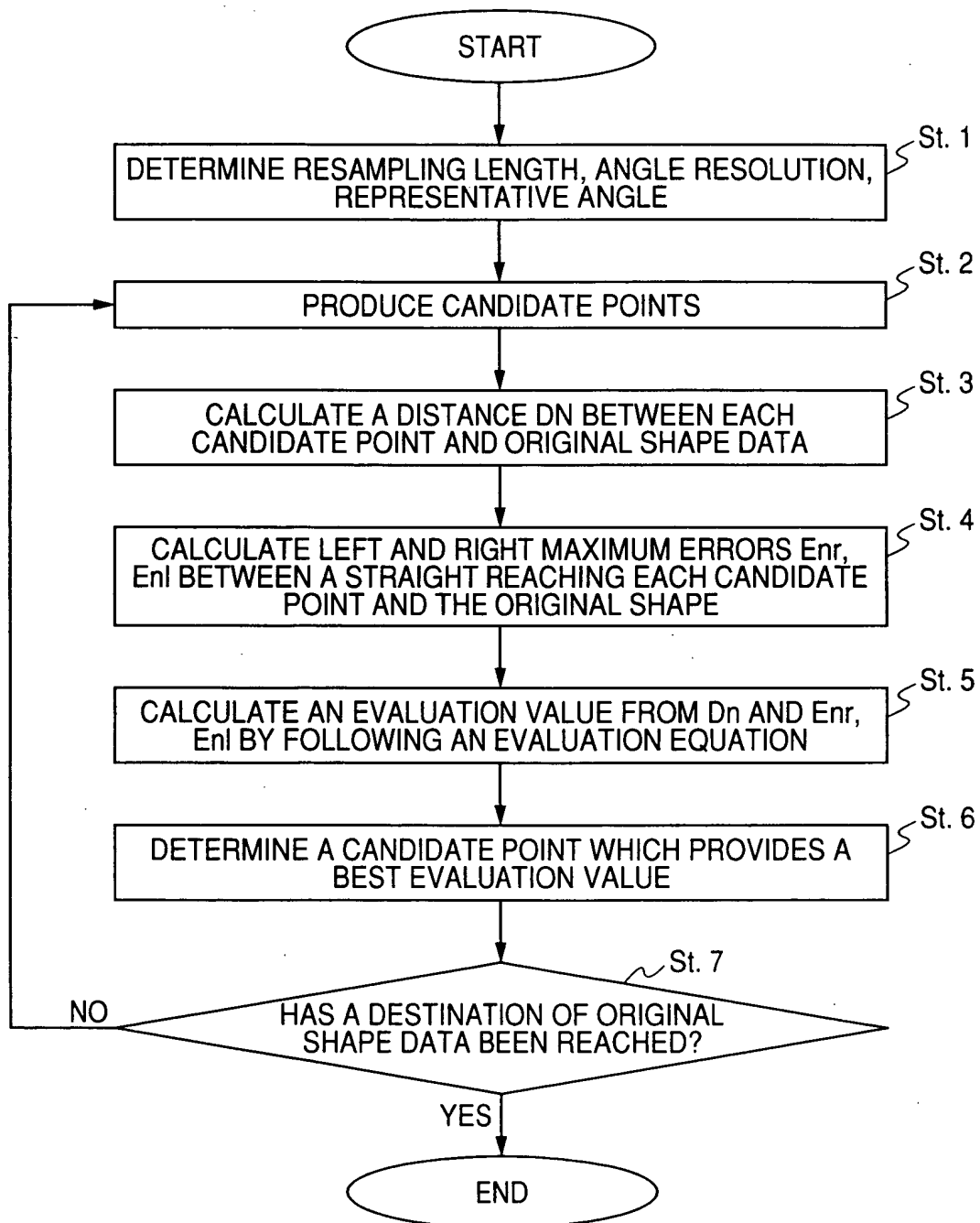


FIG. 11

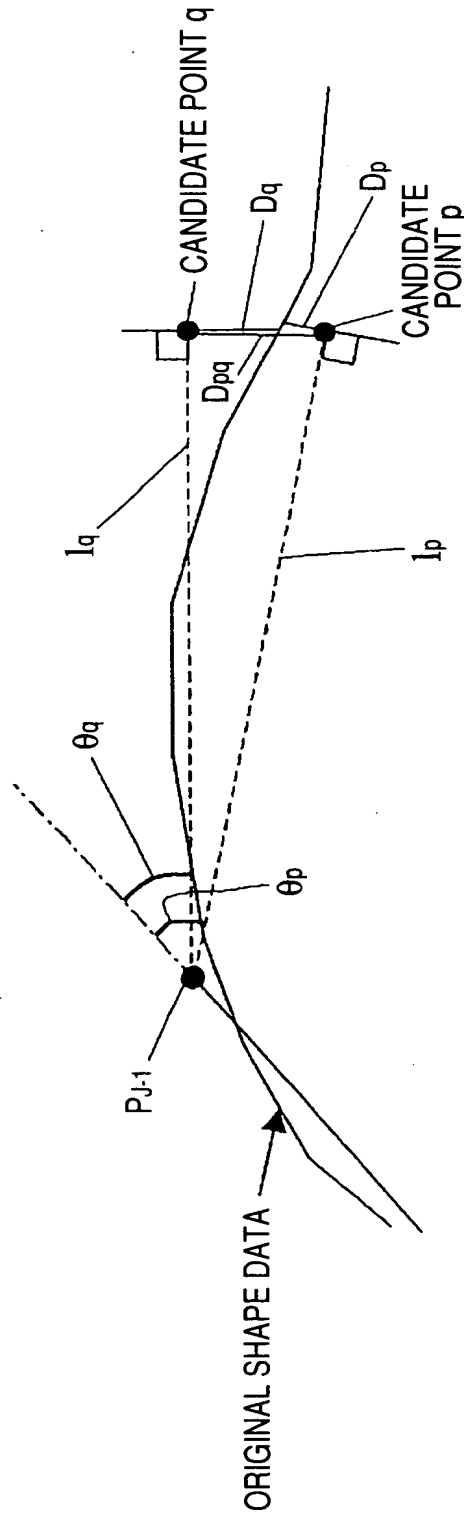
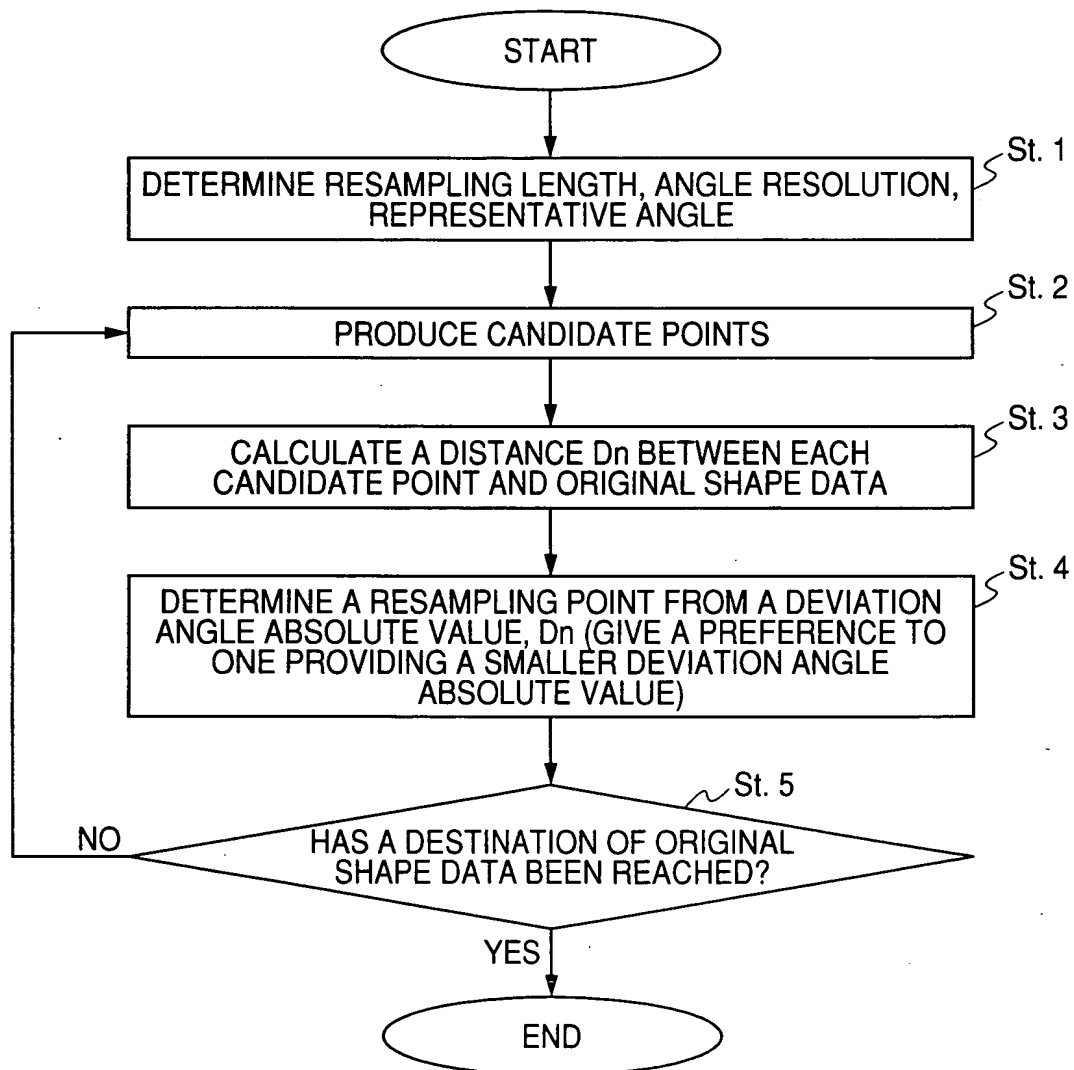
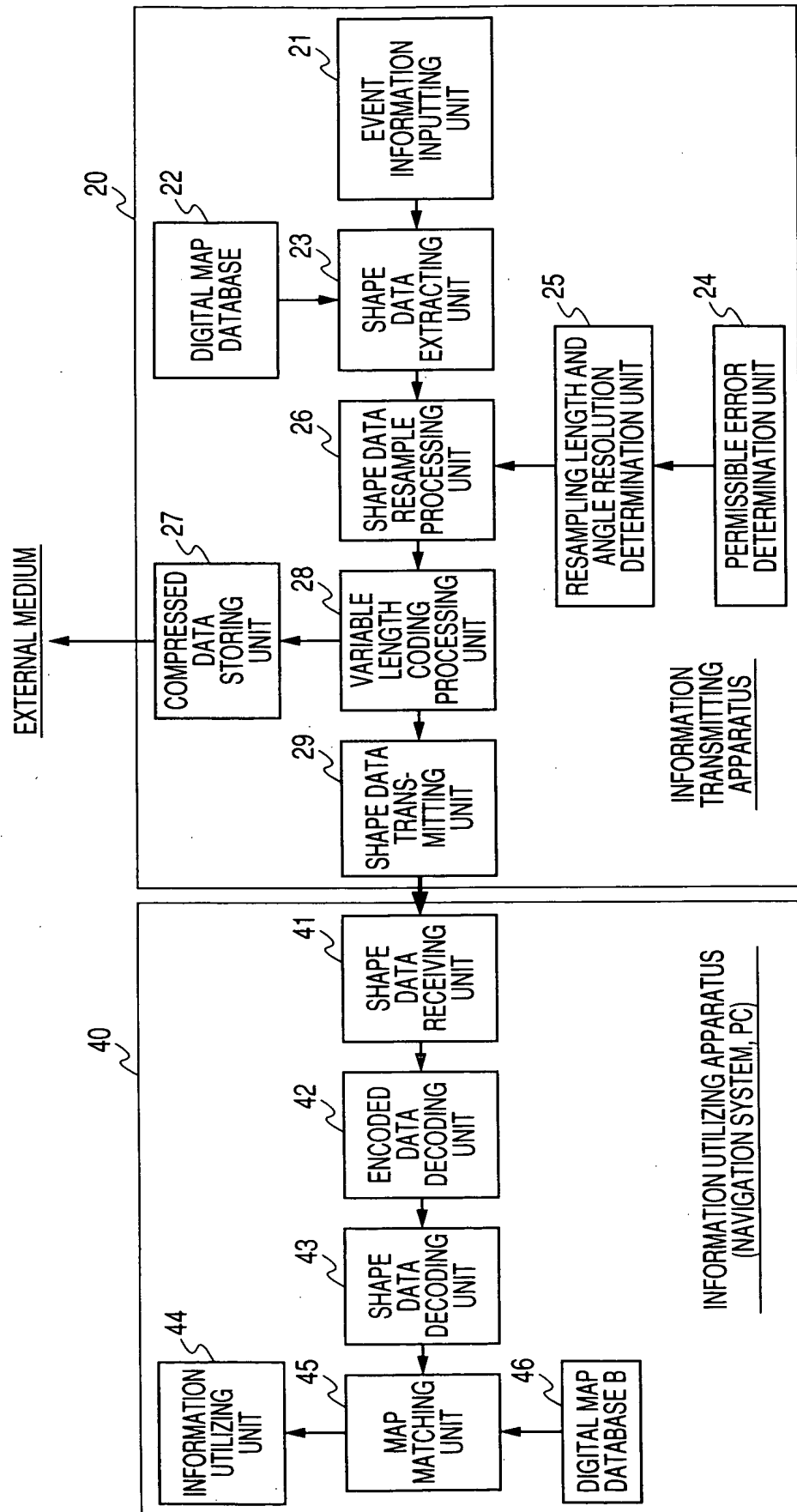


FIG. 12



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FIG. 13



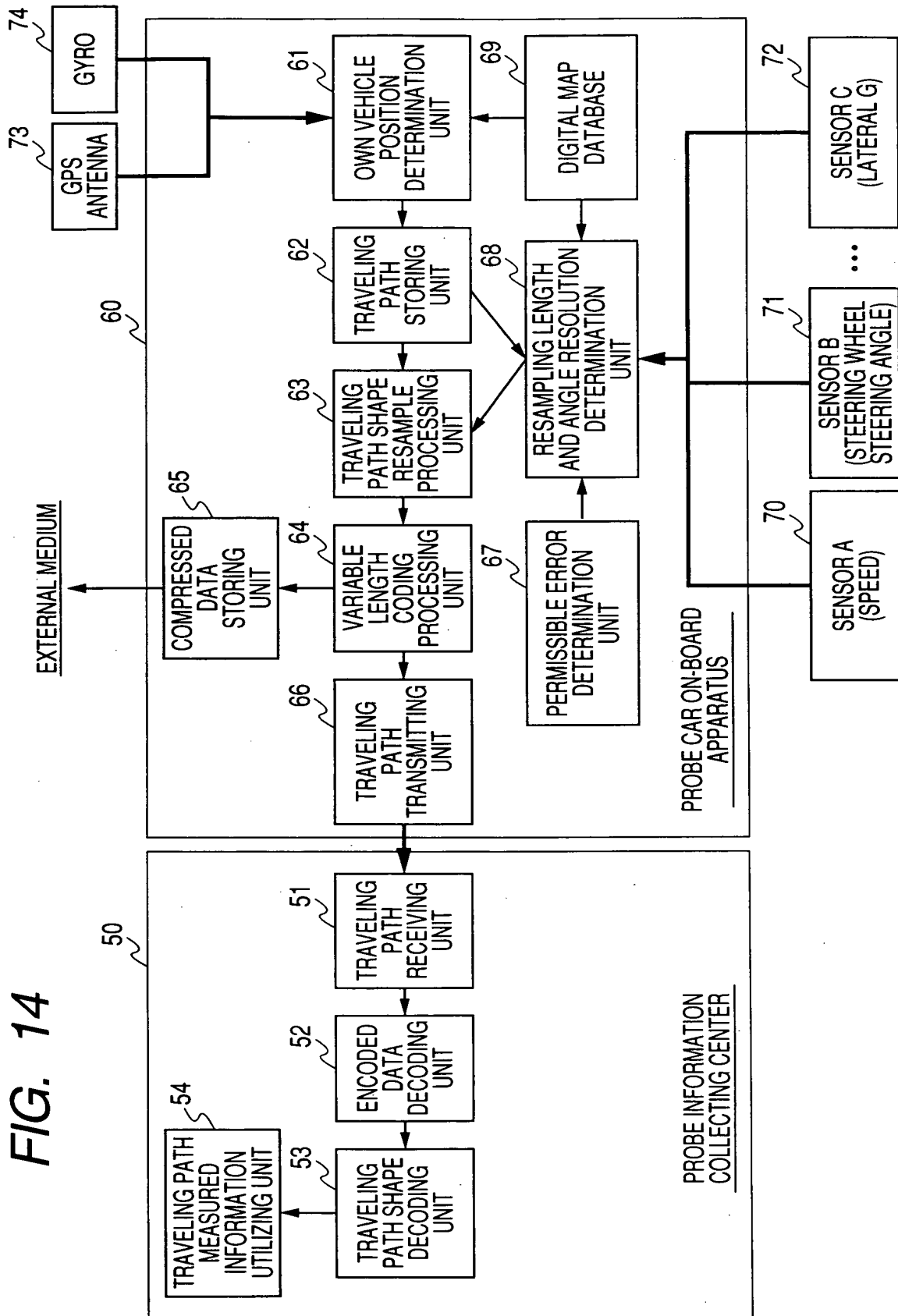


FIG. 15(a)

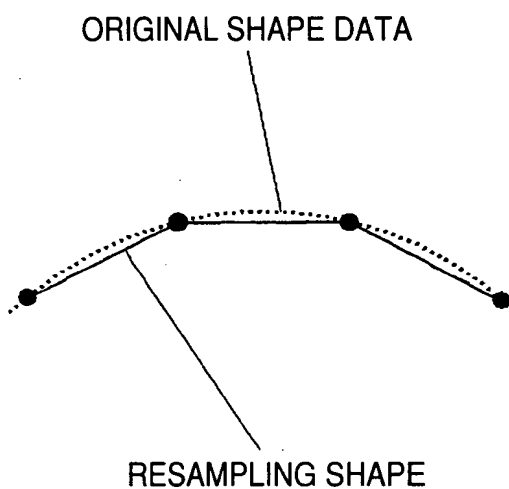


FIG. 15(b)

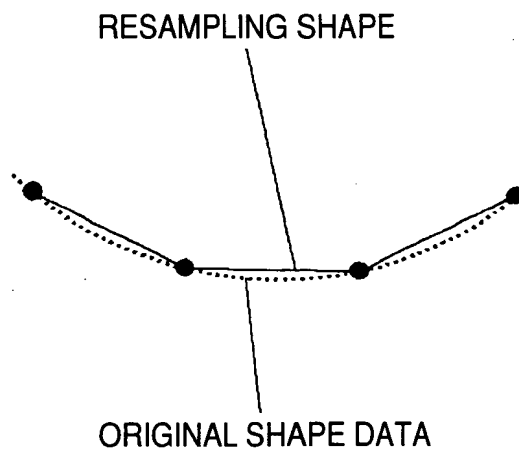


FIG. 16(a)

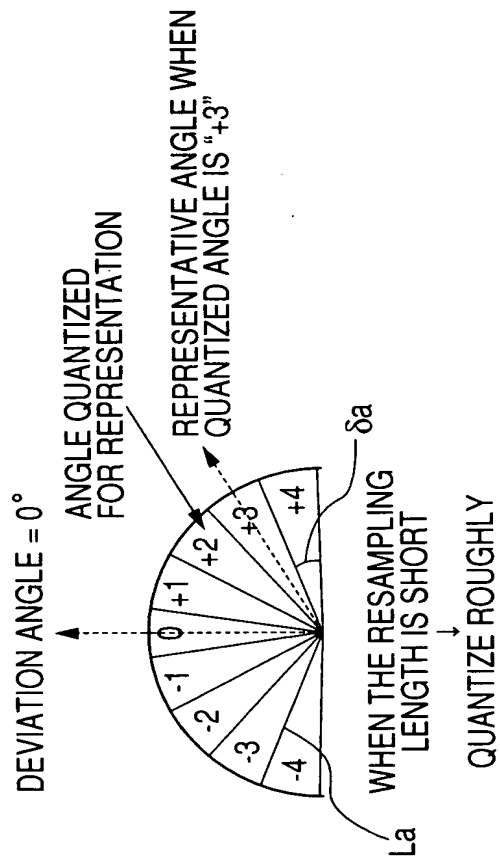
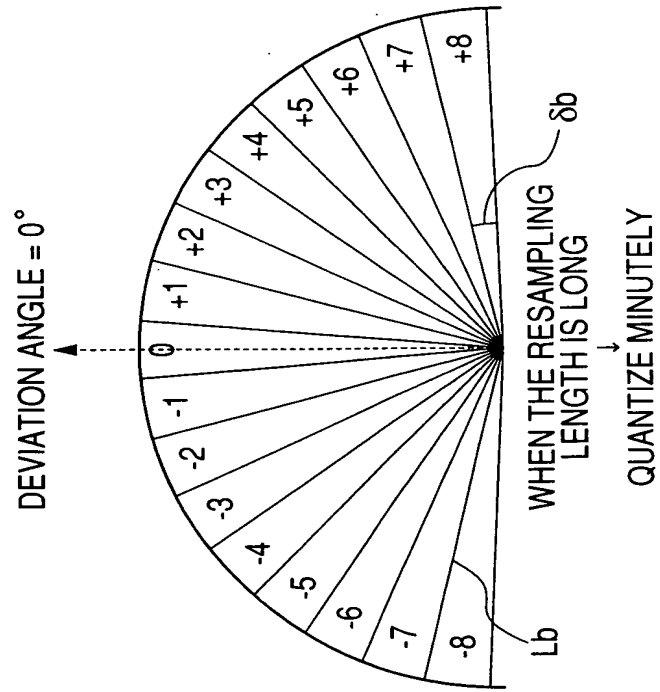


FIG. 16(b)



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FIG. 17

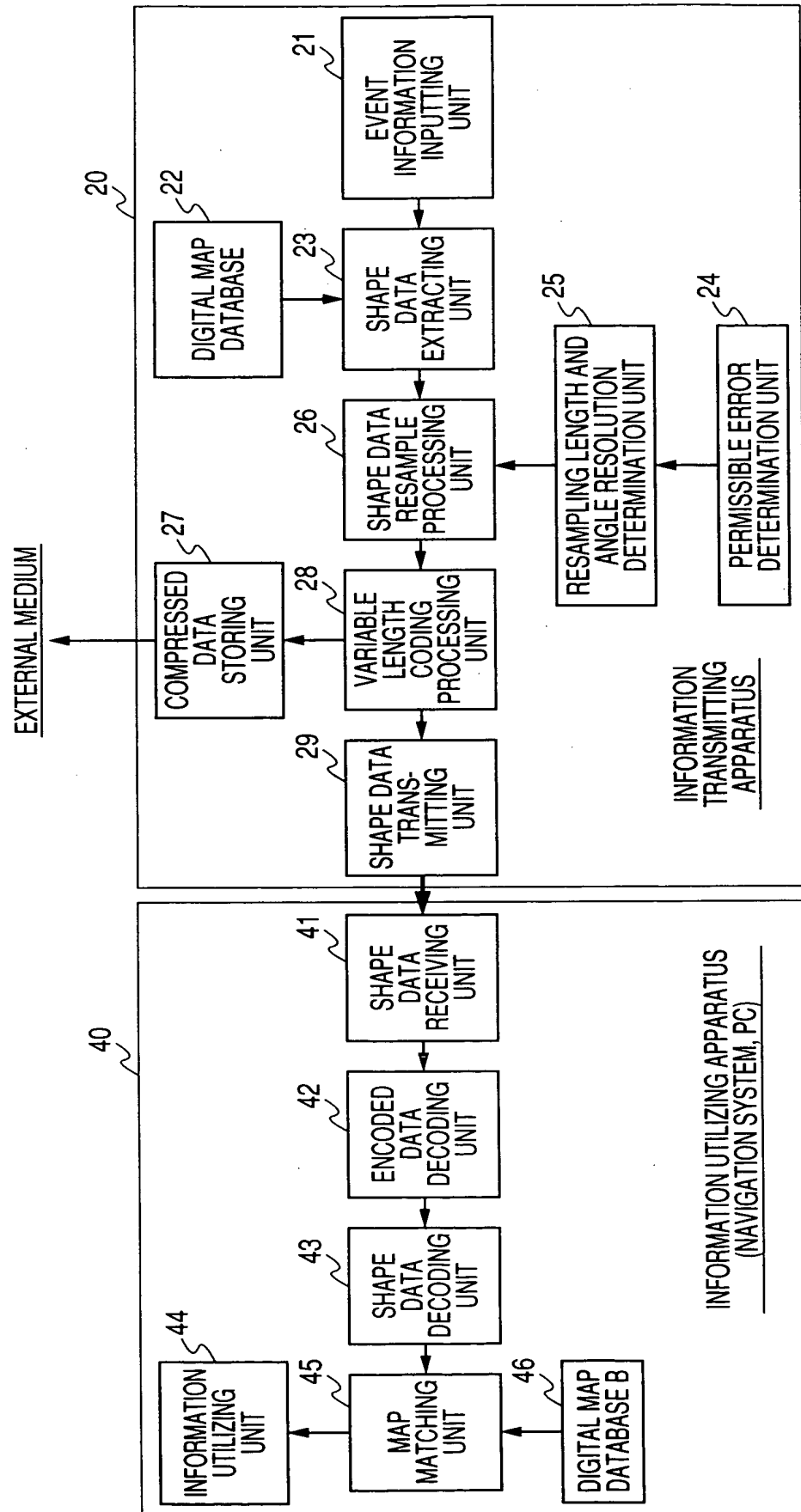


FIG. 18

RESAMPLING LENGTH (m)	ANGLE RESOLUTION ($^{\circ}$) δ
10	6
20	4
40	3
80	2
160	2
320	1
640	1
1280	0.5

FIG. 19

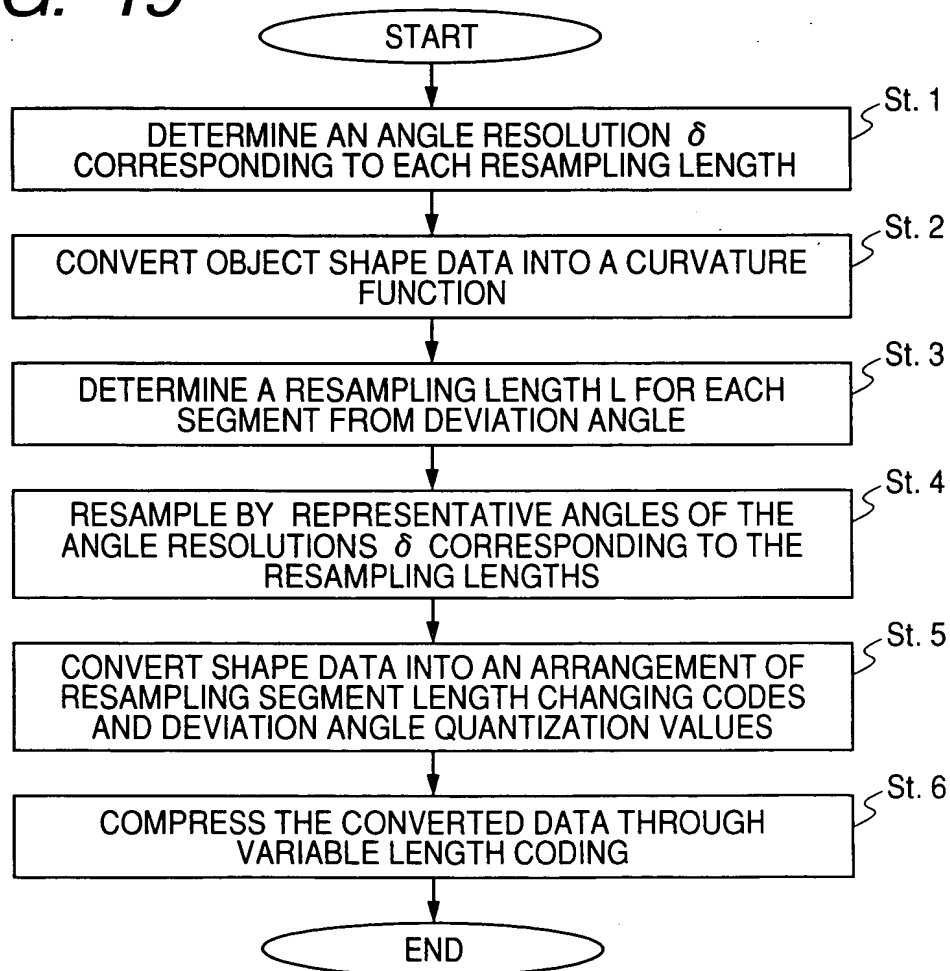


FIG. 20

<div> <div>←----- DISTANCE ERROR Ea(m) -----→</div> </div>			
L(m)	$\delta = 1^\circ$	$\delta = 3^\circ$	$\delta = 6^\circ$
1 0	0.09	0.26	0.52
2 0	0.17	0.52	1.05
4 0	0.35	1.05	2.09
8 0	0.70	2.09	4.19
1 6 0	1.40	4.19	8.37
3 2 0	2.79	8.38	16.75
6 4 0	5.58	16.75	33.50
1 2 8 0	11.17	33.51	66.99

FIG. 21

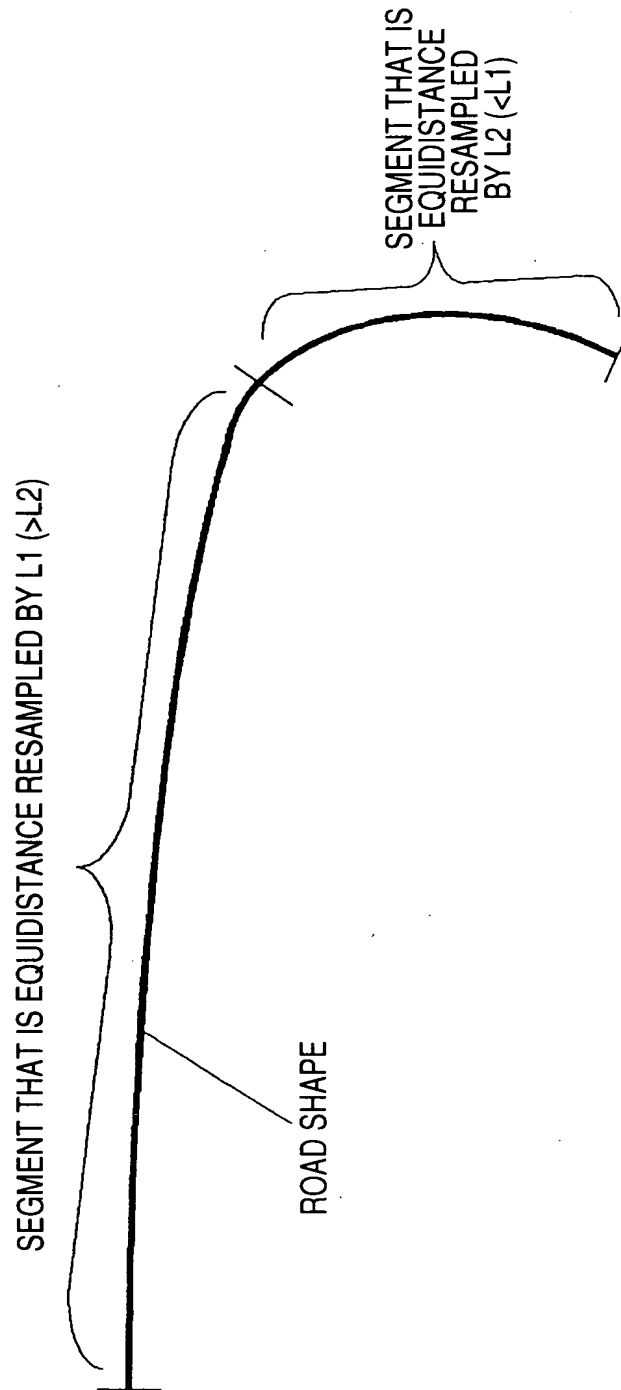
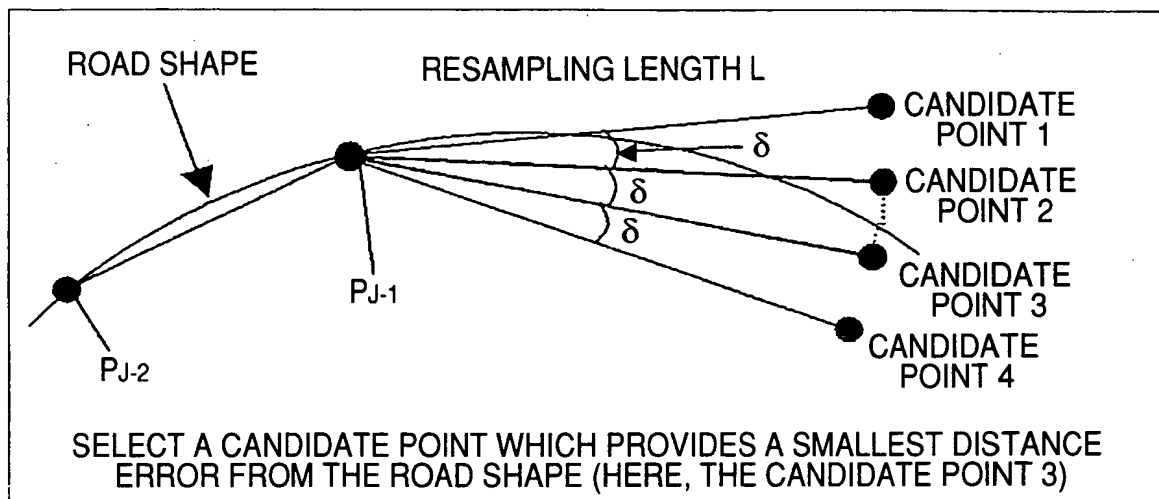
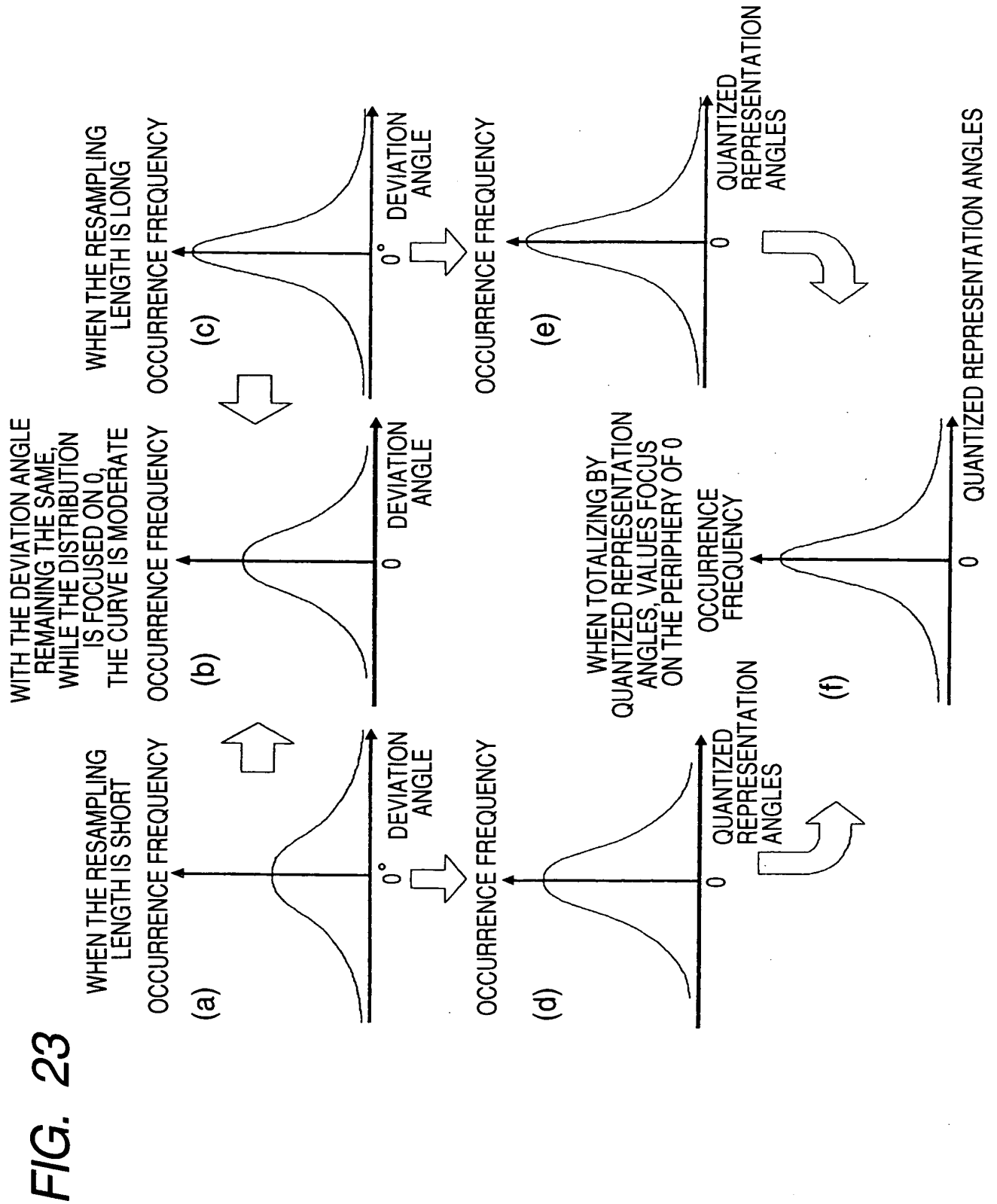
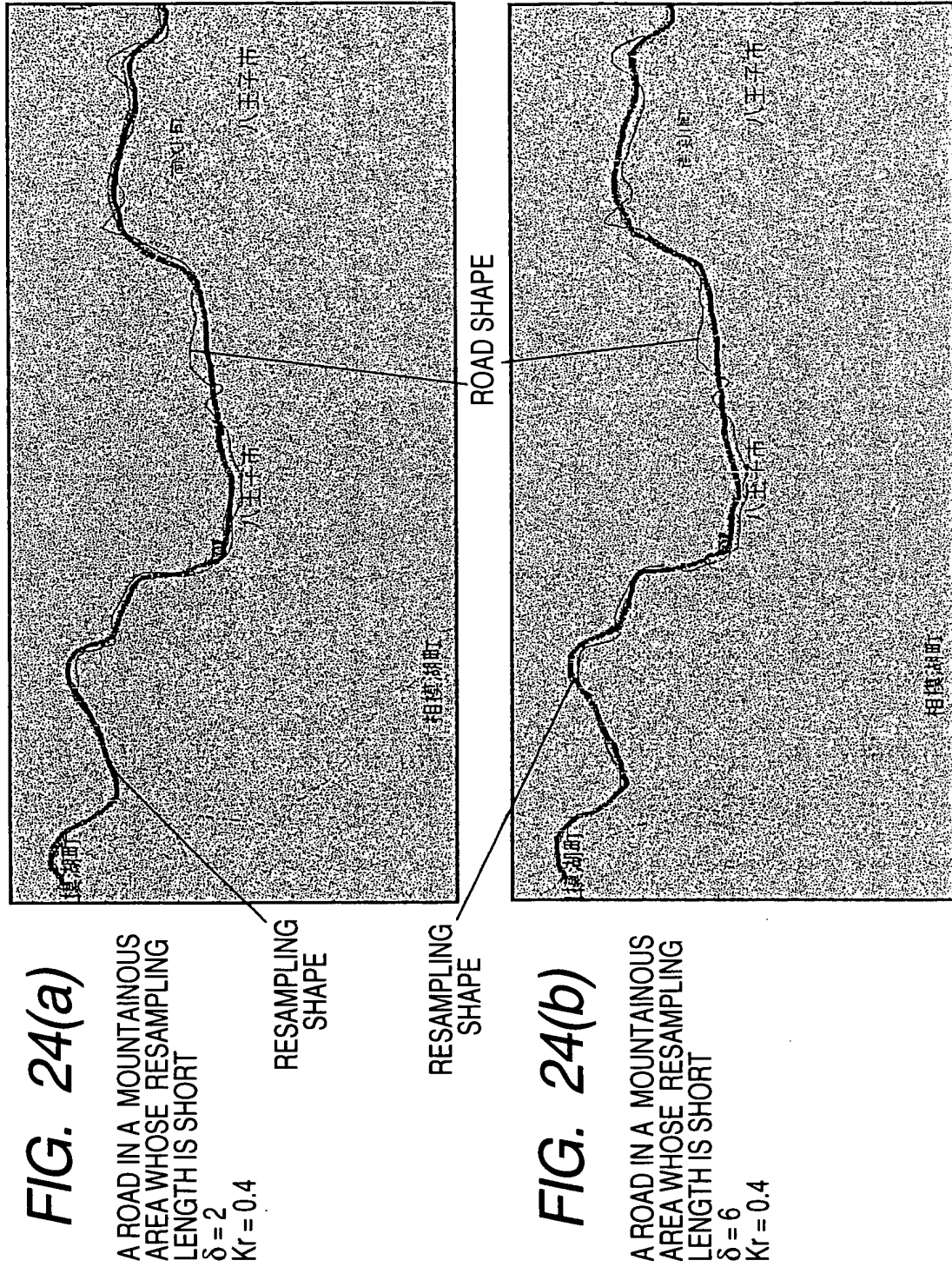


FIG. 22







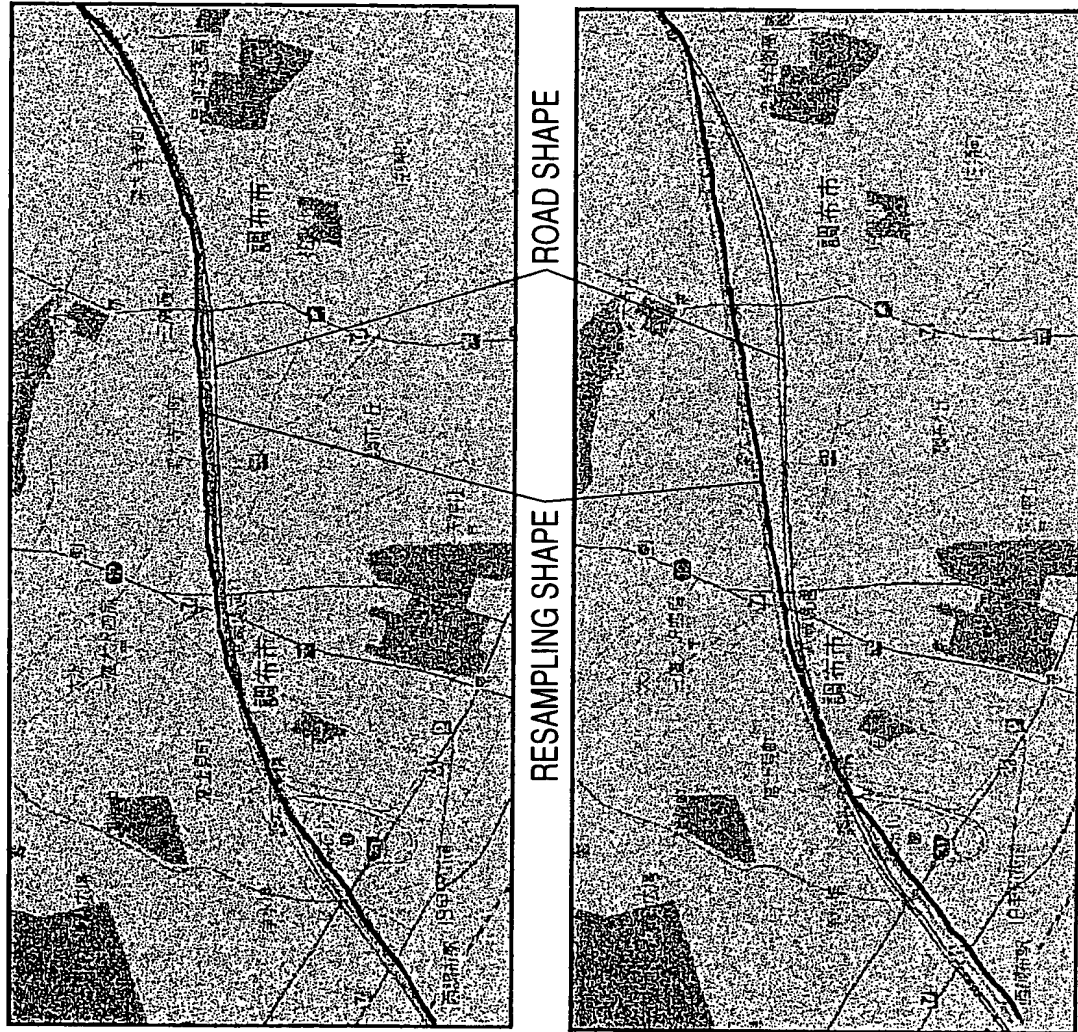


FIG. 25(a)

A HIGHWAY WHOSE
RESAMPLING LENGTH
IS LONG
 $\delta = 2$
 $Kr = 0.4$

FIG. 25(b)

A HIGHWAY WHOSE
RESAMPLING LENGTH
IS LONG
 $\delta = 6$
 $Kr = 0.4$

FIG. 26

	$\delta = 2^\circ$	$\delta = 6^\circ$
• A ROAD IN A MOUNTAINOUS AREA	1042bit	790bit
• A HIGHWAY	182bit	88bit

FIG. 27(a)

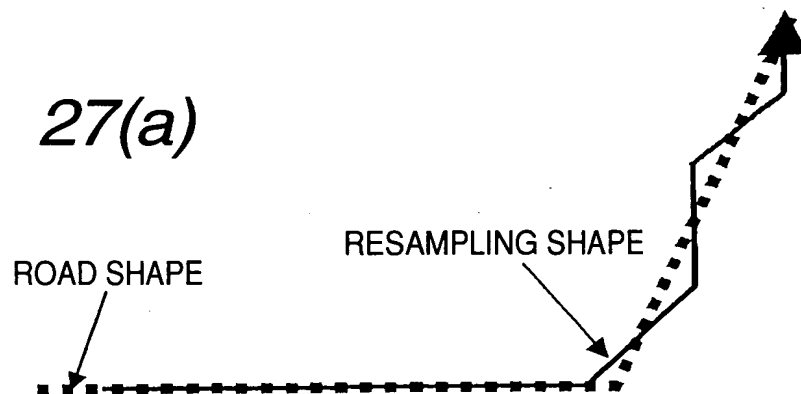


FIG. 27(b)

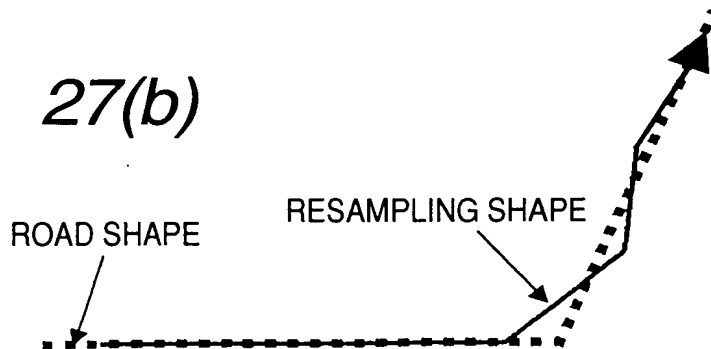


FIG. 28

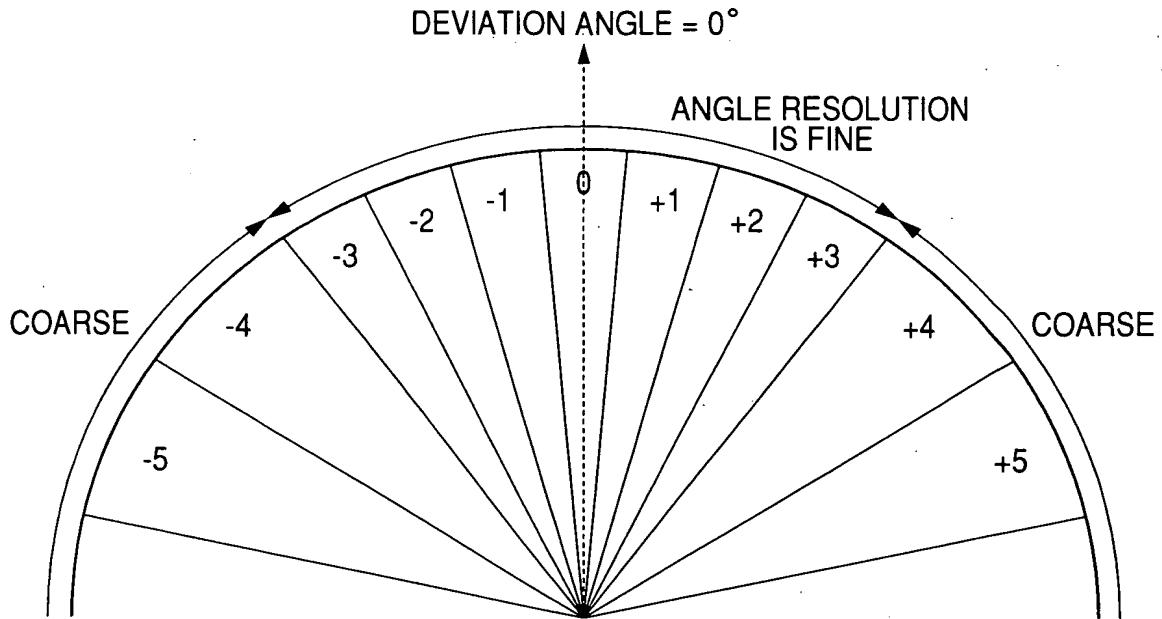


FIG. 29

RESAMPLING LENGTH (m)	ANGLE RESOLUTION (°) $ \theta \leq 10$	ANGLE RESOLUTION (°) $10 < \theta \leq 60$	ANGLE RESOLUTION (°) $60 < \theta $
10	6	10	30
20	4	6	20
40	3	6	10
80	2	4	4
160	2	2	4
320	1	1	2
640	1	1	2
1280	0.5	0.5	1

FIG. 30

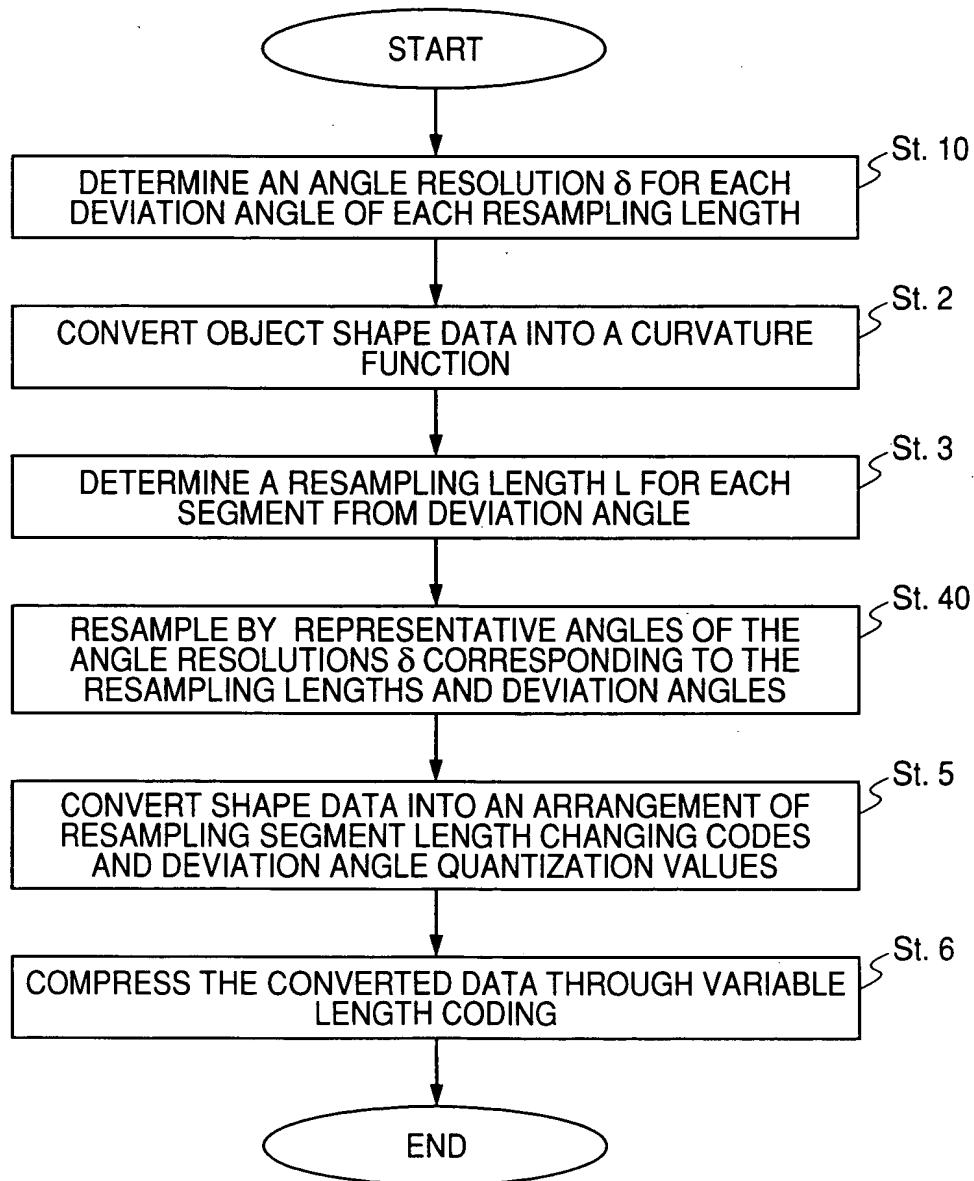
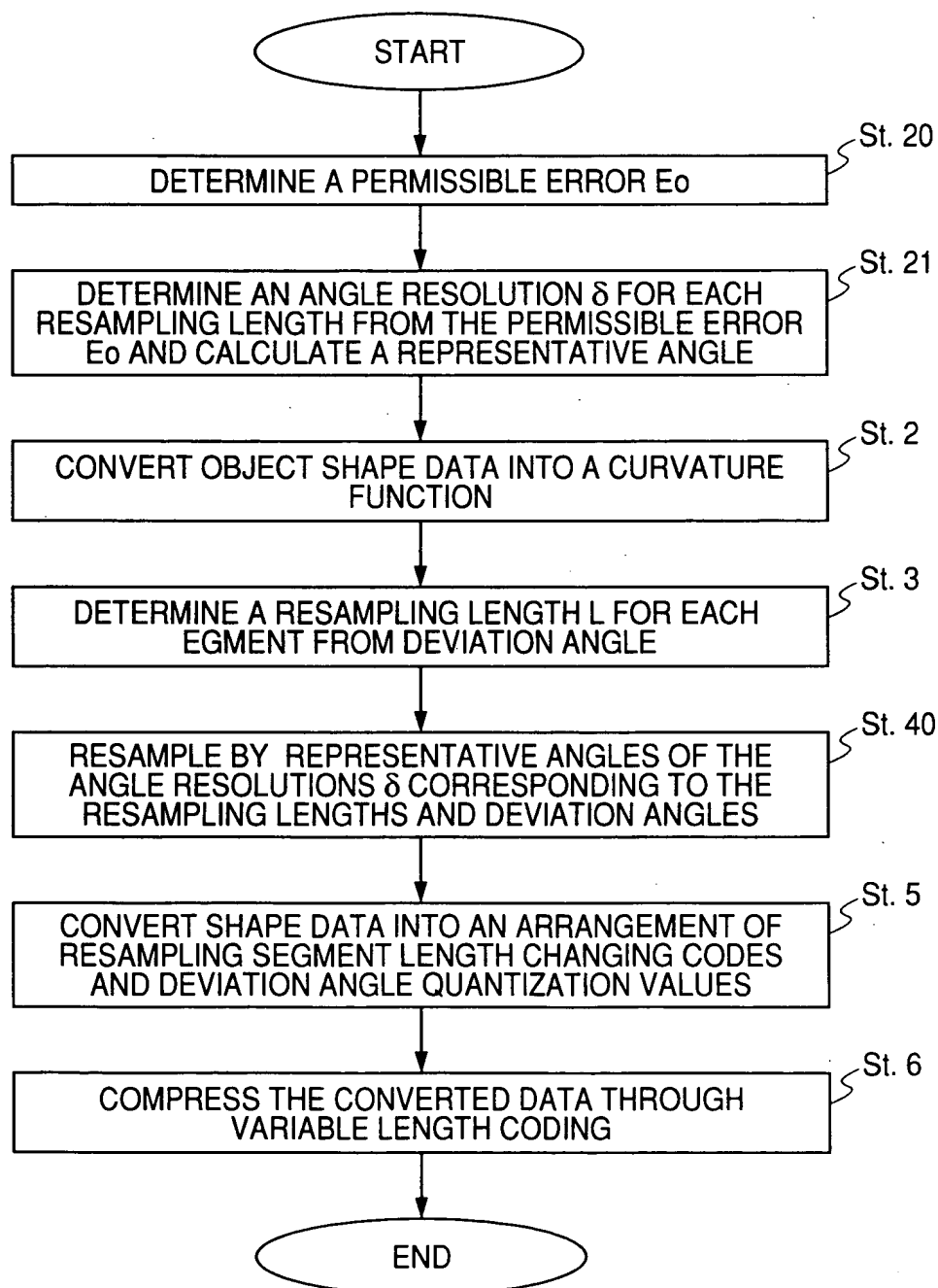


FIG. 31



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FIG. 32

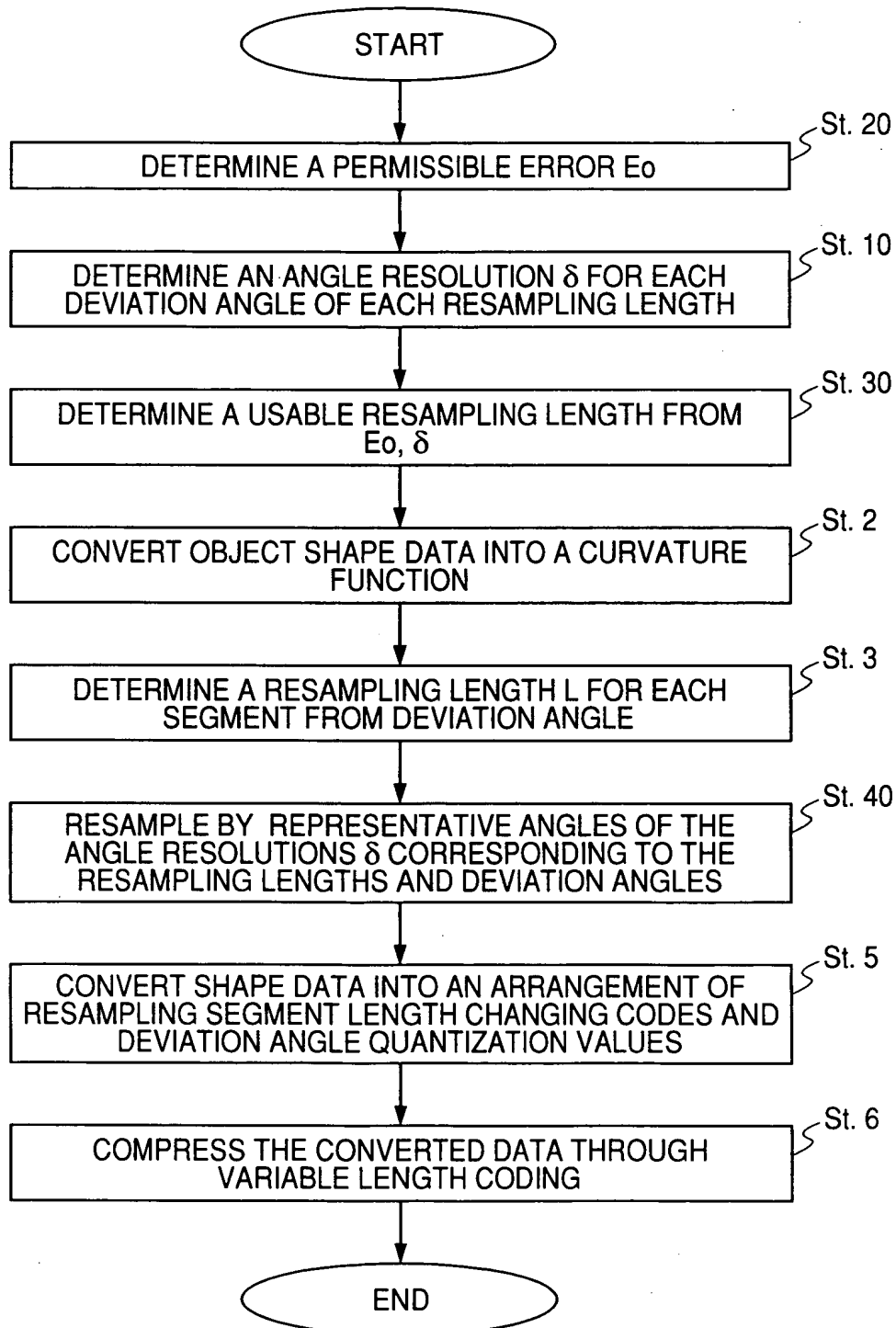


FIG. 33

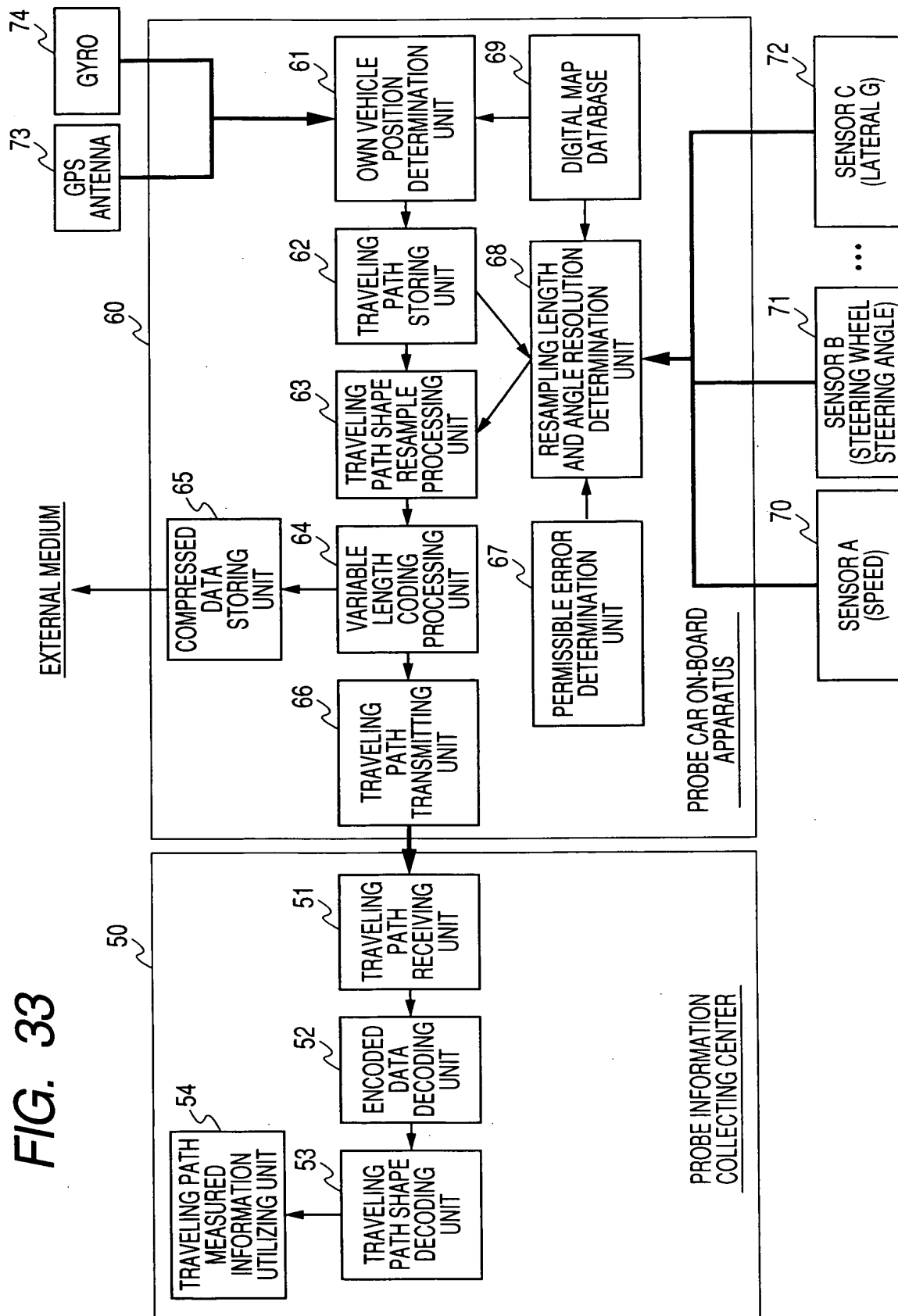


FIG. 34(a)

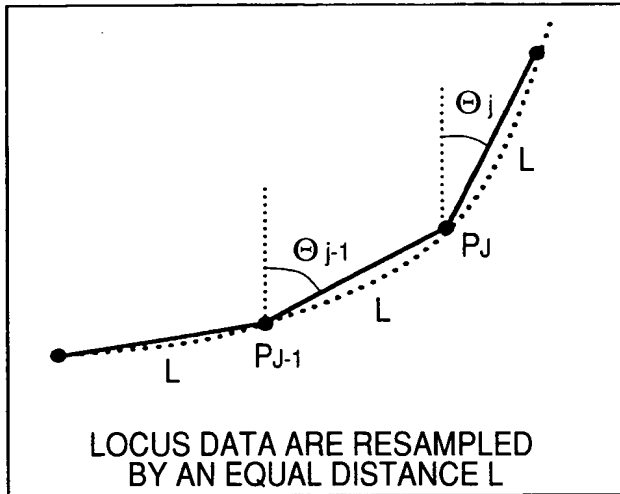


FIG. 34(b)

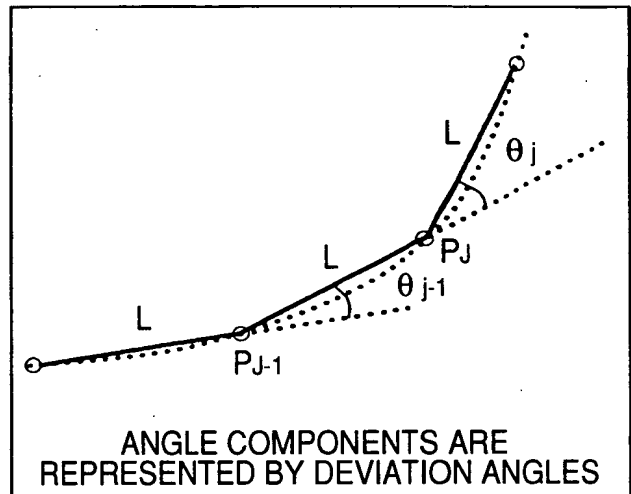


FIG. 34(c)

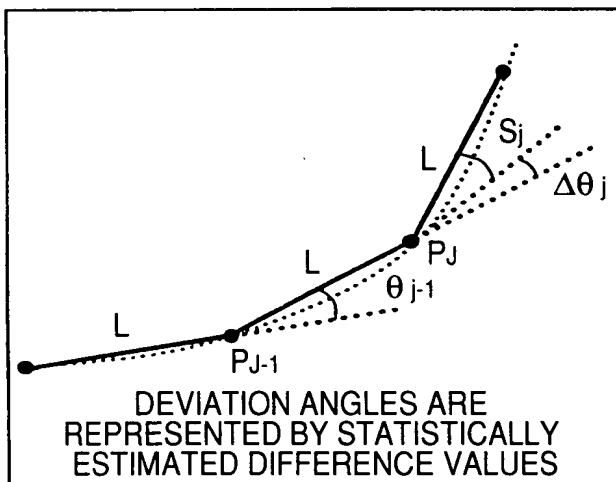


FIG. 34(d)

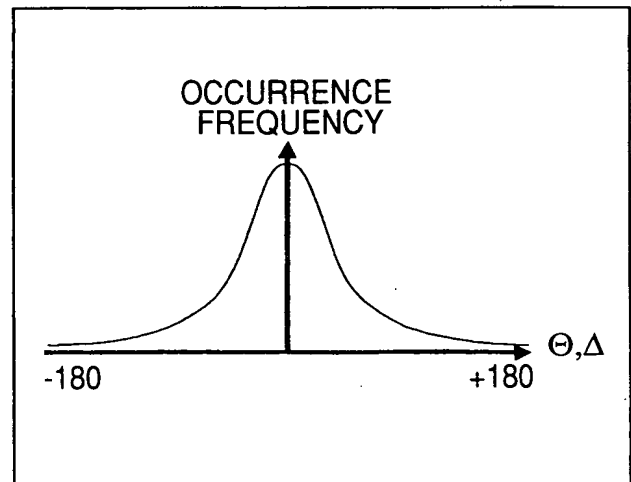


FIG. 35

SPECIAL CODES		CODES	ADDITIONAL BITS	
EOD CODES		1100	0	
INPUT VALUES		CODES	ADDITIONAL BITS	RANGES (°) OF $\Delta\theta$ VALUES
RUN LENGTHS	VALUES OF $\Delta\theta$ (°)			
0	0	0	0	-1~+1
5	0	100	0	"
10	0	1101	0	"
0	± 3	1110	1 (\pm IDENTIFICATION)	$\pm 2\sim 4$
0	± 6	111100	1 (\pm IDENTIFICATION)	$\pm 5\sim 7$
0	± 9	111101	1 (\pm IDENTIFICATION)	$\pm 8\sim 10$
}				

FIG. 36

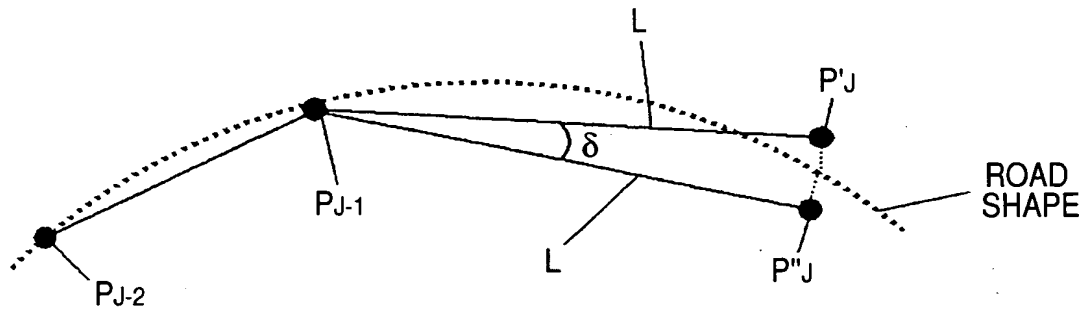
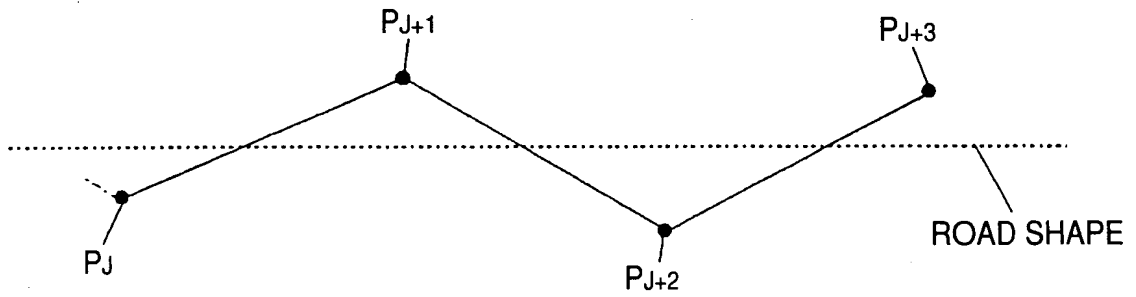


FIG. 37



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